SONY

VIDEOCASSETTE PLAYER

VP-5030

Operating Instructions page 2

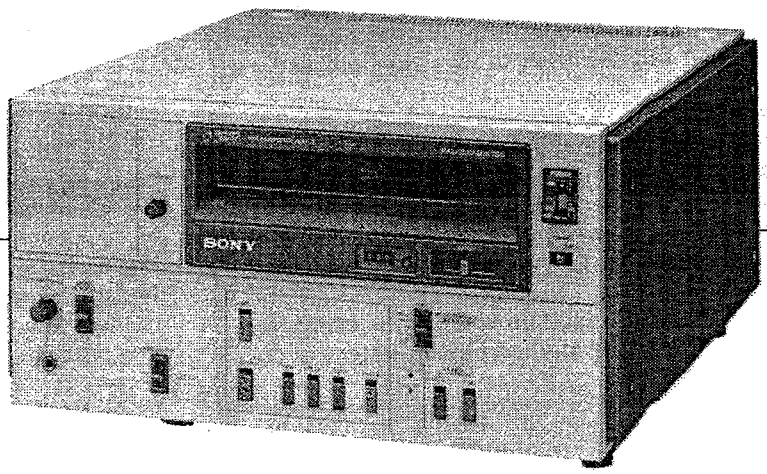
Before operating the unit,
please read this manual thoroughly and
retain it for future reference.

Mode d'emploi page 20

Avant de faire fonctionner cet appareil,
lire attentivement ce mode d'emploi
et le conserver pour toute référence
ultérieure.

Bedienungsanleitung Seite 38

Lesen Sie bitte vor Inbetriebnahme des Gerätes diese Anleitung aufmerksam durch, und bewahren Sie sie zum späteren Nachschlagen gut auf.



English

The Sony VP-5030 is a compact and lightweight videocassette player which plays back a video cassette recorded using any video system: EIA standard NTSC4.43 color system and CCIR standard PAL or SECAM color system. The system is selected by the SYSTEM SELECT switch on the front panel. The VP-5030 incorporates the very latest technology, and you will find that being able to operate all functions on the front panel is very convenient.

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WARNING FOR THE CUSTOMERS IN THE UNITED KINGDOM

THIS APPARATUS MUST BE EARTHED to your 3-pin plug in accordance with following instruction.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Green-and-yellow: Earth (safety earth)
Blue: Neutral
Brown: Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

WARNING

- To prevent fire or shock hazard, do not expose the unit to rain or moisture.
- To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

OWNER'S RECORD

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. VP-5030 Serial No. _____

FEATURES

The VP-5030 has a wide variety of functions and almost all of which can be controlled on the front panel.

Search operation: Playback at about 5-times normal speed is possible in both forward and reverse directions.

Programmed operation: Program material from the beginning of the tape to the point at which the tape counter reads "000" can be played back repeatedly. It is also possible to stop the tape automatically at the "000" point.

Still picture: When the tape is stopped with the PAUSE button during playback, a still picture can be obtained. The guard band noise is limited to the upper or lower part of the screen so that the still picture is easy to see.

Long pause mode: When the tape is stopped in the pause mode for a long period of time, the machine automatically enters the long pause mode to avoid possible damage to the tape.

Moisture detector: When moisture condenses on the video head drum, the moisture detector is activated and the machine stops to avoid possible tape damage. The AUTO OFF indicator lights to indicate moisture condensation.

Remote control and auto search: The machine can be remotely controlled with an optional remote control unit. Any point on the tape can be searched for and played back automatically using an RX-353CE or RX-303CE Auto Search Control Unit.

Logic control: The logic control system allows you to change modes without pressing the STOP button.

Full automatic rewind: The tape is automatically rewound to the beginning when it runs to the end.

Two audio tracks: Two audio tracks permits playback of stereo sound or bilingual program material.

Timer operation: With the aid of a timer (optional), playback can be started and stopped when the player is unattended.

Other features

Stable playback picture: The servo system using a direct drive capstan motor and drum motor, and the newly developed digital servo IC assure a stable tape transport which reduces tape jitter.

Rack mounting: The VP-5030 is designed to be mounted in a 19-inch EIA standard rack.

No power adaptation and low power consumption: Thanks to Sony's newly-developed high efficiency switching regulator, the unit can be operated with a wide range of power voltages and frequencies without power adaptation. Power consumption is low.

PRECAUTIONS

On safety

- Operate the unit only with a power source specified in the "SPECIFICATIONS" on page 18.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

On installation

- Allow adequate air circulation to prevent internal heat buildup. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots.
- Do not install the unit near a heat source such as a radiator or an air duct, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- The unit is designed for operation in a horizontal position. Never operate the unit in a vertical position. The projections on the connector panel are to protect the connectors and switches on the panel when the unit is stored vertically.
- Keep the unit away from equipment with strong magnets as for example a large loudspeaker.

On operation

- When the unit is not in use, turn the power off.
- Remove and store video cassettes after playback.
- Never operate the unit right after having transported it from a cold location directly to a warm location.

On cleaning

Clean the cabinet, panel and controls with a dry soft cloth, or a soft cloth lightly moistened with a mild detergent solution. Do not use any type of solvent, such as alcohol or benzine, which might damage the finish.

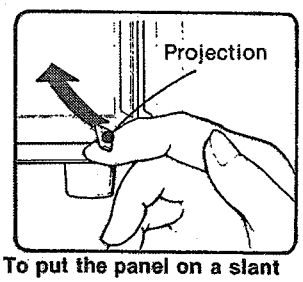
On transportation

- Remove the video cassette when transporting the unit.
- Save the original carton and associated packing material. They will be useful should you have to transport or ship the unit.

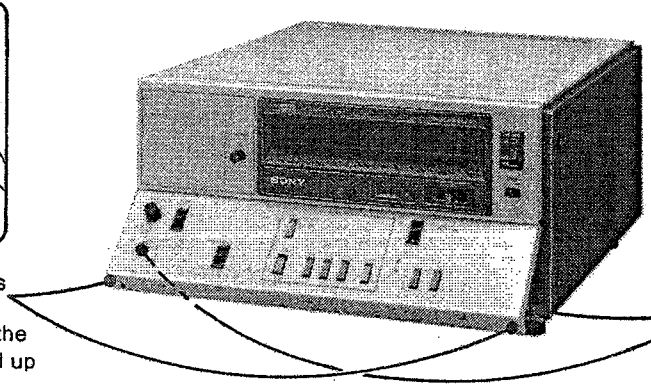
If you have any questions about this unit, contact your Sony dealer.

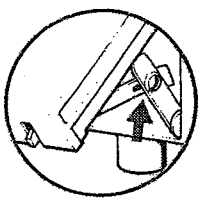
TO PUT THE OPERATION PANEL ON A SLANT

The lower half of the operation panel can be pulled out as shown below.



To put the panel on a slant
While pulling the projections on the bottom of the operation panel out, swing the bottom of the panel out and up until the side braces lock.



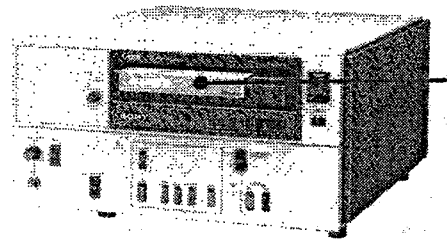


To return the panel to the original position
Push up on the side braces to unlock them and swing the panel down and back until it clicks into place.

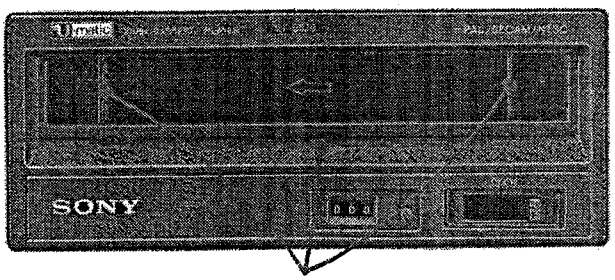
ABOUT VIDEO CASSETTES

TO INSERT A VIDEO CASSETTE

1. Turn the power on.
2. Insert a video cassette straight into the cassette compartment until it stops. The cassette is automatically loaded.



To insert a KCS cassette
Be sure to insert a KCS cassette into the center of the cassette compartment, aligning the cassette with the guide—the cutout at the cassette entrance and the lines on the cassette compartment lid.



Align these positions.

If the STAND BY indicator remains lit and any of function buttons (except for the EJECT button) does not operate the player
Eject the cassette and take up the leader tape manually by turning the reel to the direction of the arrow on the bottom until the leader tape is completely taken up.
Insert the cassette again.

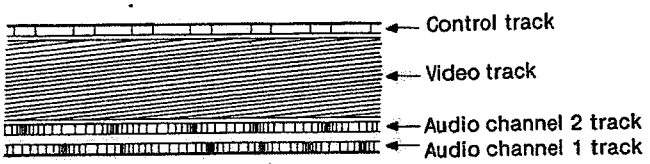
Notes on cassette insertion
- Be sure to insert the cassette straight into the entrance of the cassette compartment, not at an angle.
- Do not insert a cassette with the bottom side up.
- The labels on the cassette should be firmly attached. If they peel off an inserted cassette, you might not be able to remove the cassette.

TO REMOVE A VIDEO CASSETTE

1. Check that the power is on.
2. Press the EJECT button. The cassette will be automatically ejected.

THE RECORDING FORMAT

The video and audio signals are recorded using the full width of the tape as shown below. Because of this, the tape cannot be used in the reverse direction.

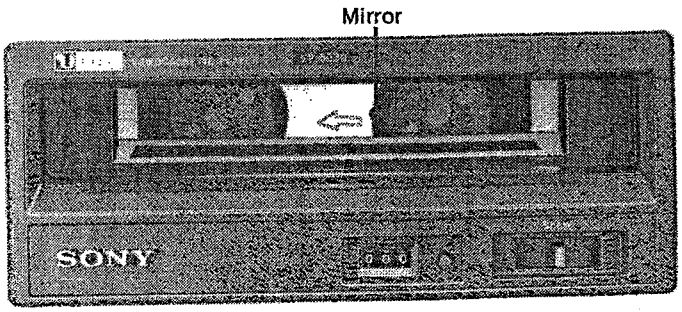


HANDLING AND STORAGE

- Do not store a video cassette in a place subject to direct sunlight, high humidity or excessive dust, or near heaters, air ducts or a magnetic field.
- Store the cassette in the cassette case vertically, first rewinding the tape evenly on the supply reel.
- Avoid subjecting the cassette to mechanical shock.

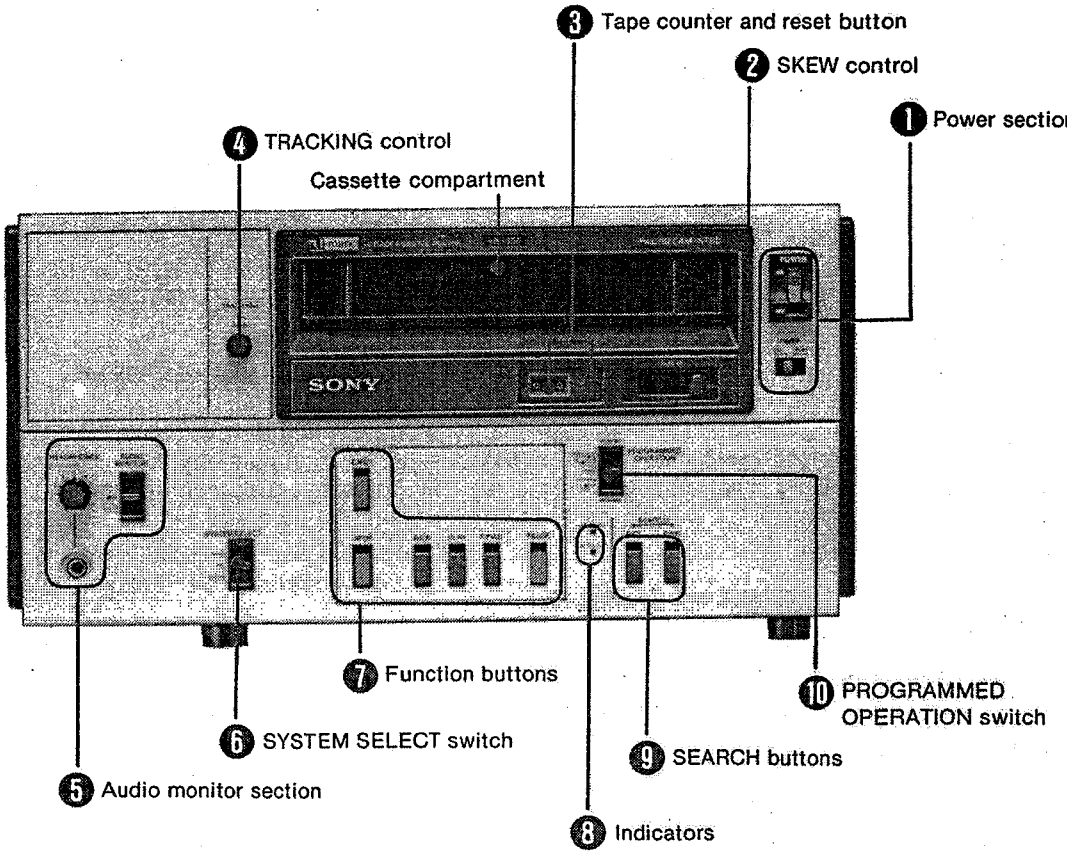
TO DETERMINE THE AMOUNT OF TAPE ON THE REEL

The amount of tape remaining can be seen in the mirror inside the cassette compartment.



LOCATION AND FUNCTION OF CONTROLS

FRONT PANEL



❶ Power section

POWER switch
Press the side with the dot to turn the player on or to operate the recorder using the timer. To turn the player off, set the switch to OFF.

TIMER switch
Timer-activated playback is controlled with this switch when the POWER switch is set to ON.
OFF: To turn the timer off.
PLAY: To start and stop playback using the timer

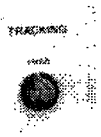
❷ SKEW control

This control adjusts tension on the tape. Slide the control to the right or the left to obtain a normal picture when picture "hooking" distortion appears in the upper part of the screen. Normally, set the control to the center detent position.

❸ Tape counter and reset button

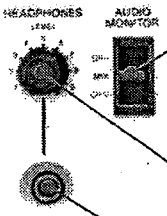
Use the tape counter as a guide to locate particular segments. Press the reset button to reset the counter to "000".

❹ TRACKING control



Turn to minimize the tracking variance between machines so that the best possible picture is obtained.
Normally, set this control to the center FIXED position.

❺ Audio monitor section



AUDIO MONITOR switch
This switch selects the monitoring sound through a video monitor or headphones.
CH-1 : To hear the sound recorded on channel 1 only.
MIX : To hear the channel 1 sound from the left headphone and the channel 2 sound from the right headphone or to hear the mixed sound of the channel 1 and channel 2 through the video monitor connected to the AUDIO MONITOR jack or TV connector.
CH-2 : To hear the sound recorded on channel 2 only.
● This switch does not affect the audio outputs of the LINE OUT jacks.

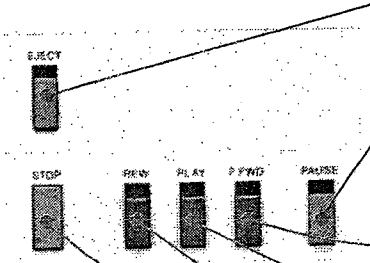
HEADPHONES LEVEL control
This control adjusts the volume at the headphones.

HEADPHONES jack (stereo phone jack)

❻ SYSTEM SELECT switch

Selects the video signal system.
NTSC : For playback of a video cassette recorded using the EIA standard NTSC4.43 color system.
PAL : For playback of a video cassette recorded using the CCIR standard PAL color system.
SECAM : For playback of a video cassette recorded using the CCIR standard SECAM color system.

❼ Function buttons



EJECT button
Press to eject the video cassette.

PAUSE button and indicator
Press to stop the tape momentarily during playback. A still picture will be obtained. To start the tape, press again. If the PLAY, F FWD, REW or SEARCH button is pressed during the pause mode, the pause mode will be released and the tape will run in the mode designated by the button pressed.

F FWD (fast forward) button and indicator
Press to advance the tape rapidly.

PLAY button and indicator
Press to play the tape back.

REW (rewind) button and indicator
Press to rewind the tape.

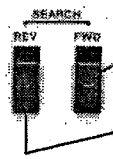
STOP button
Press to stop the operation of the unit.

⑧ Indicators

STAND BY indicator
This indicator lights while the tape is being threaded or unthreaded.

AUTO OFF indicator
This indicator lights to indicate that the moisture is condensed inside the unit. While the AUTO OFF indicator is lighting, the unit does not operate even if the function button is pressed.

⑨ SEARCH buttons



FWD (forward) button
Press to view the playback picture at about 5-times normal speed in the forward direction.

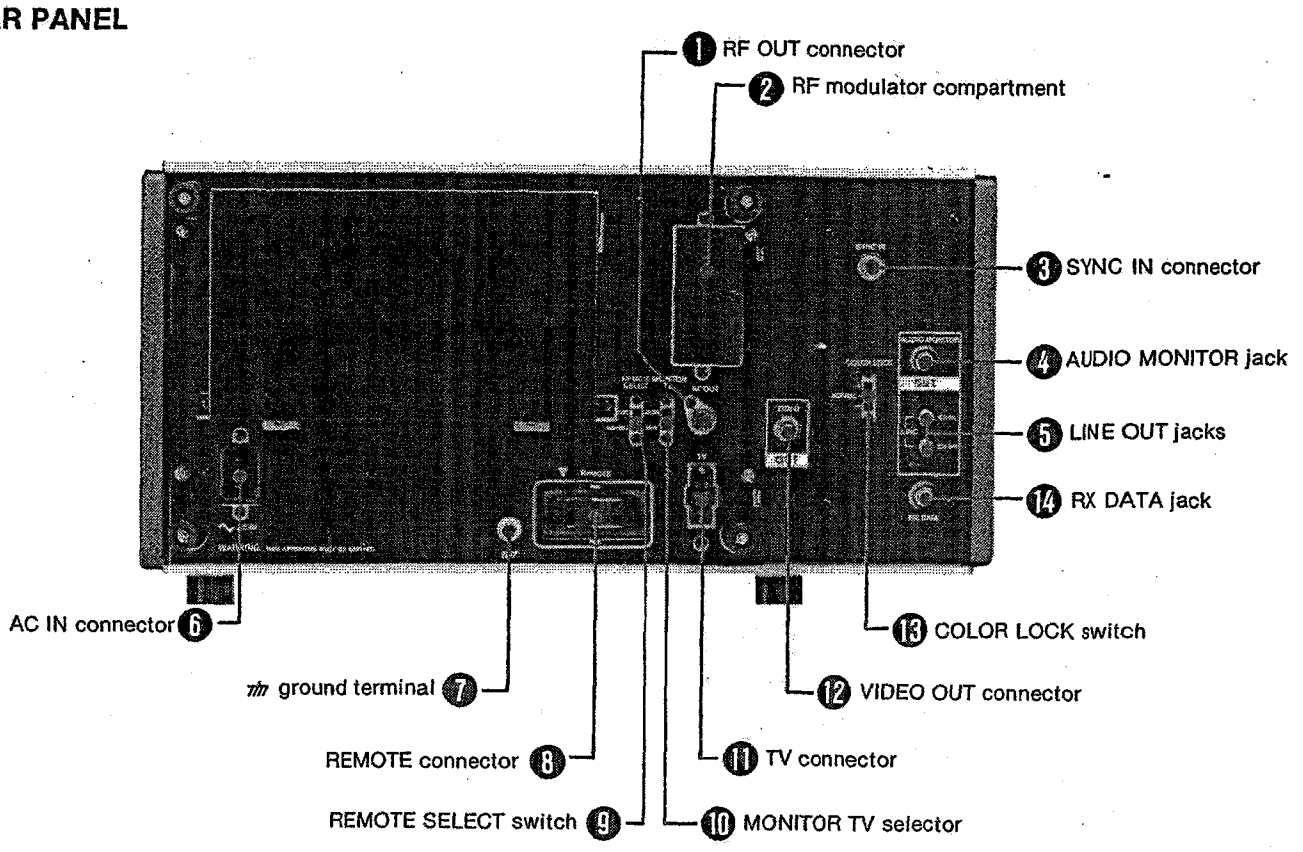
REV (reverse) button
Press to view the playback picture at about 5-times normal speed in the reverse direction.

●When these buttons are used, the servo system is not locked so the guard-band noise flows on the playback picture.

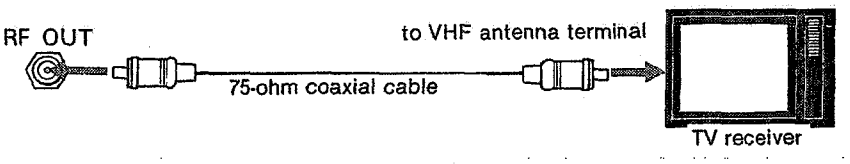
⑩ PROGRAMMED OPERATION switch

START 000
↻ : To repeatedly play back the program material between the beginning of the tape and the point at which the tape counter reads "000".
OFF : For normal playback.
↩ 000 : To stop the tape at the "000" point in the rewind mode.

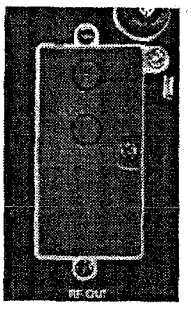
REAR PANEL



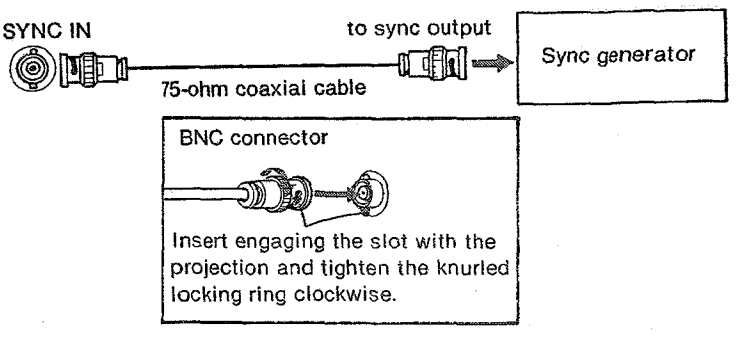
❶ RF OUT connector
The output signal of the RF modulator, if it is inserted, is fed out here. Using this connector, you can see a picture on a conventional TV receiver.



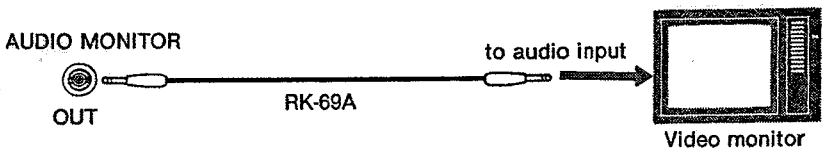
❷ RF modulator compartment
Insert an RF modulator* (optional) here to see a picture on a conventional TV receiver.
*An RF (Radio Frequency) modulator converts the signal to be fed to the TV receiver into a UHF channel signal.



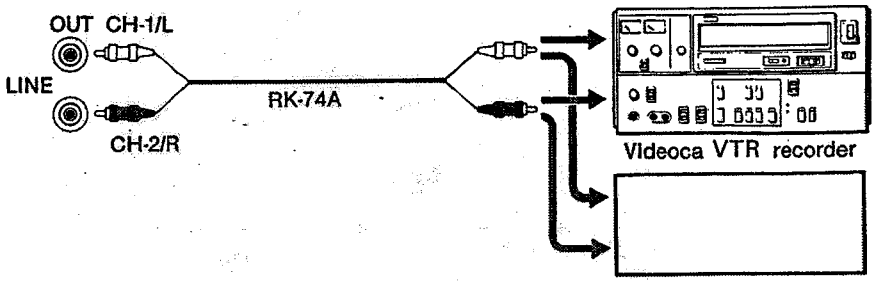
❸ SYNC IN connector (BNC type)
Connect to the sync output of an external sync generator with the same color system of the playback tape, PAL, SECAM, NTSC4.43. The player will synchronize with this signal.


SYNC IN
to sync output
Sync generator
75-ohm coaxial cable
BNC connector
Insert engaging the slot with the projection and tighten the knurled locking ring clockwise.

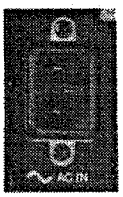
❹ AUDIO MONITOR jack (mini type)
Connect to the audio input jack on the video monitor. The signal selected by the AUDIO MONITOR switch on the front panel is output here.



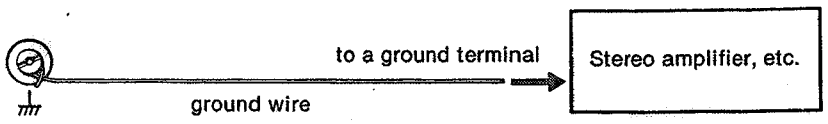
❺ LINE OUT (audio line output) jacks (phono type)
The signals recorded on the audio channel 1 and audio channel 2 are output here.



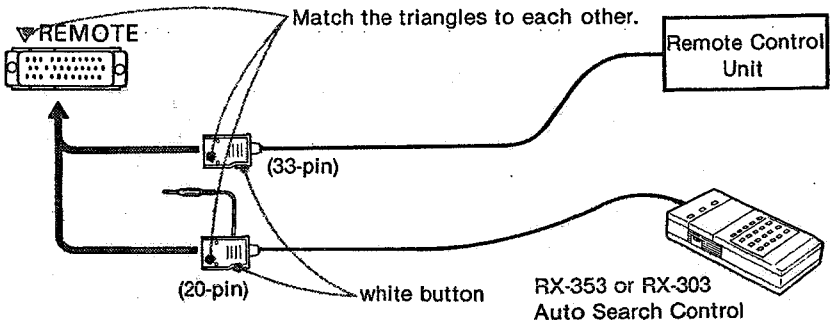
❻ AC IN connector
Connect the supplied ac power cord here.



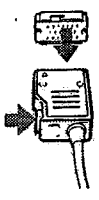
❼ ⏚ ground terminal
To reduce hum in the audio signal, connect this terminal to a ground terminal of the connected audio equipment.



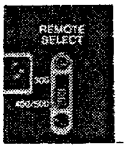
❽ REMOTE connector (33-pin)
Connect an optional auto search control unit or remote control unit to this connector.
- Before connecting the remote control cable, check whether the connector is male or female.
- The REMOTE connector accepts a 20-pin connector. A plug adaptor is unnecessary.
- When a unit which is equipped with a 20-pin connector is connected to the REMOTE connector, do not use the REV button on the unit. If you do, the player will malfunction.



To disconnect the cable, press the white button on the connector and pull the connector out.

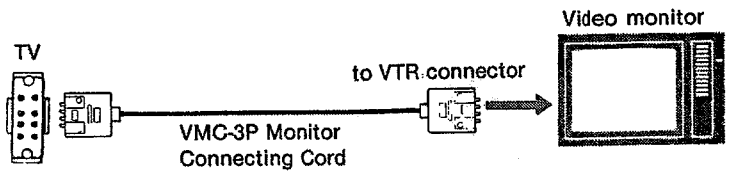


⑨ REMOTE SELECT switch
Set this switch depending on the type of the remote control unit or auto search control unit used.
300: When an RM-300, RX-303CE or RX-353CE is used.
400/500: When an RM-420, RM-555, or RM-500 is used.

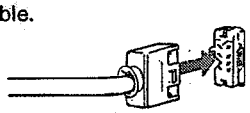


⑩ MONITOR TV selector
Set this selector according to the type of video monitor used.
COLOR: For a color monitor.
B & W: For a black and white monitor.

⑪ TV connector (8-pin)
Connect to the 8-pin VTR connector of a video monitor.
The video and audio output connections can be made with a single cable.
The channel selected by the AUDIO MONITOR switch will be heard through the speaker on the video monitor.

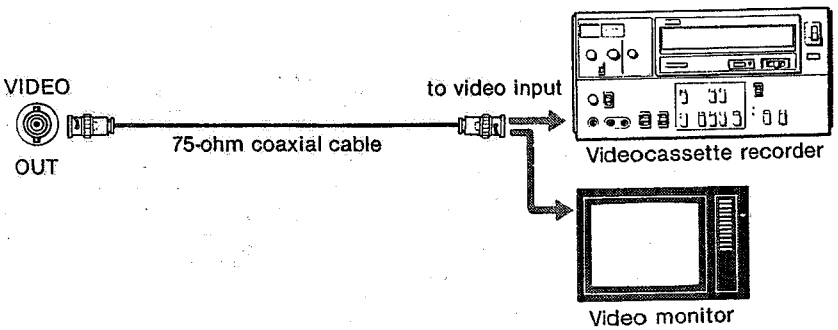


Be sure that the connectors are properly aligned before connecting the cable.

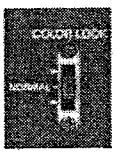


To remove, press the buttons on both sides of the connector.

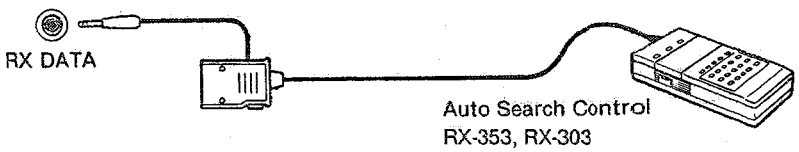
⑫ VIDEO OUT connector (BNC type)
The video signal is output here.



⑬ COLOR LOCK switch
As a rule, set to NORMAL. If the playback picture has no color or if the hue is abnormal, set the switch to the upper or lower position marked [•].

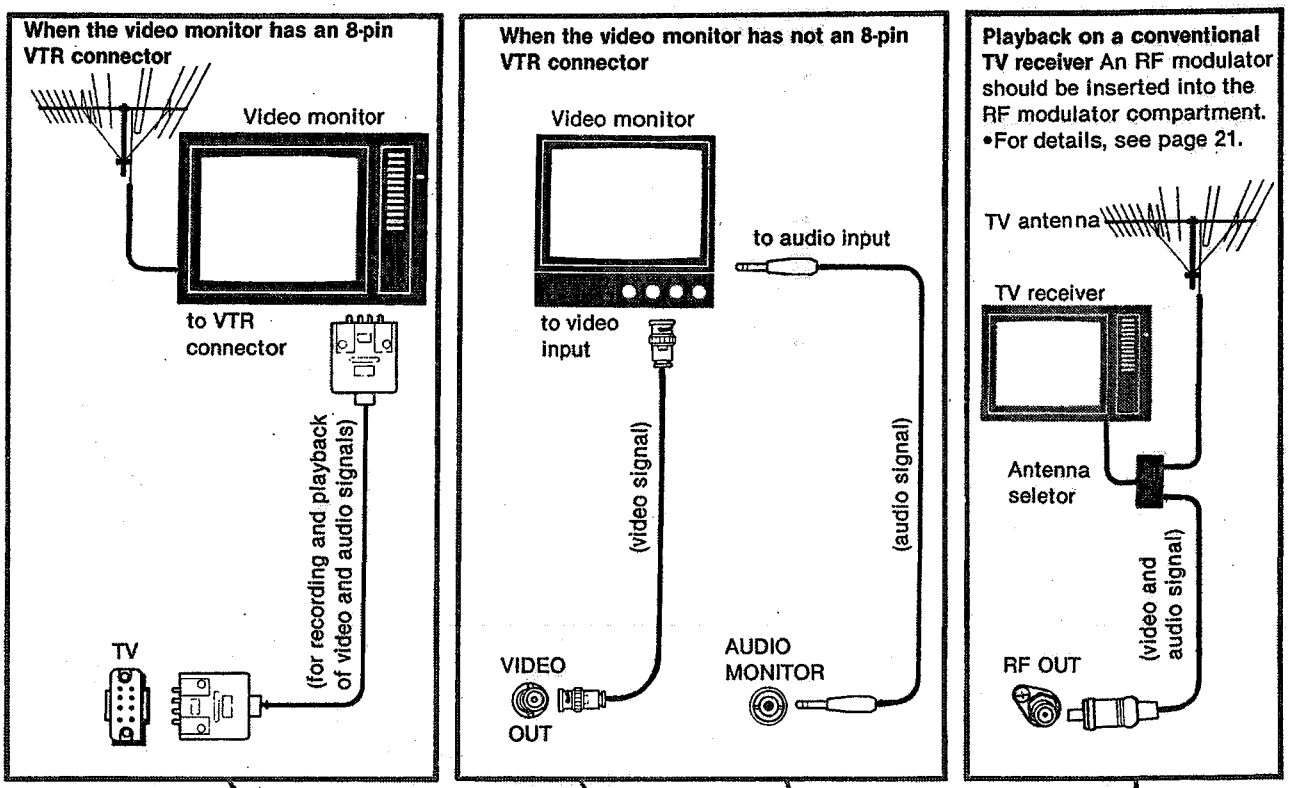


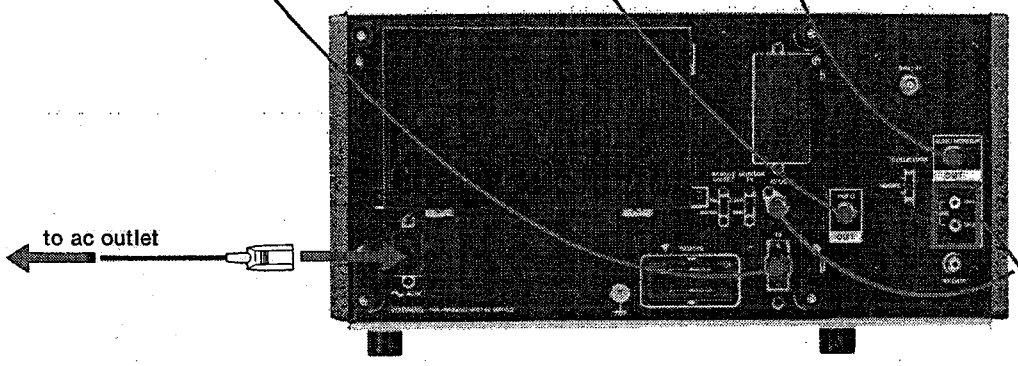
⑭ RX DATA jack (mini type)
For reading the data recorded on the tape by the auto search control unit.



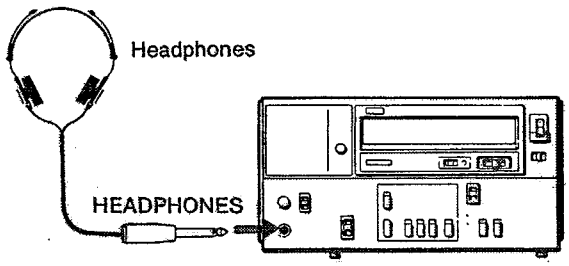
CONNECTIONS

CONNECTIONS WITH A VIDEO MONITOR OR A TV

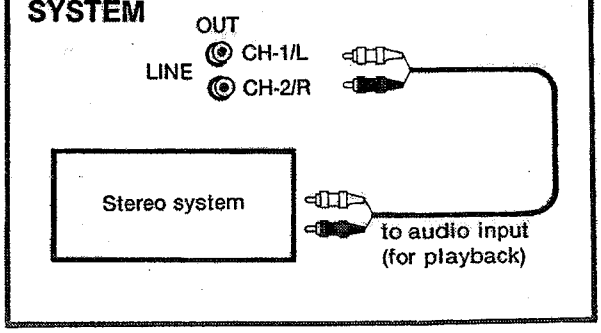

When the video monitor has an 8-pin VTR connector
Video monitor
to VTR connector
(for recording and playback of video and audio signals)
TV
When the video monitor has not an 8-pin VTR connector
Video monitor
to audio input
to video input
(video signal)
(audio signal)
VIDEO OUT
AUDIO MONITOR
Playback on a conventional TV receiver An RF modulator should be inserted into the RF modulator compartment.
•For details, see page 21.
TV antenna
TV receiver
Antenna seletor
(video and audio signal)
RF OUT



TO HEAR THE SOUND USING HEADPHONES



CONNECTIONS WITH A STEREO SYSTEM



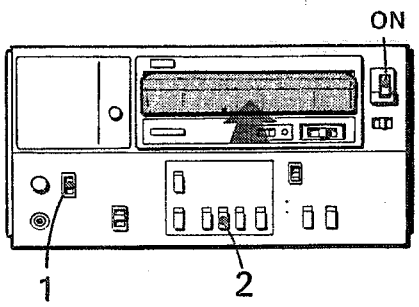
PLAYBACK

PREPARATIONS

1. Make the necessary connections. (See page 12.)
2. Turn the power of the video monitor on.
3. Set the input select switch on the video monitor according to the connector to be used:
   —When the VTR connector is used → VTR
   —When the video input connector is used → LINE
4. Set the SYSTEM SELCT switch on the VP-5030 to the appropriate position.
   —For playback of a video cassette recorded using the EIA standard NTSC4.43 color system → NTSC
   —For playback of a video cassette recorded using the CCIR standard PAL color system → PAL
   —For playback of a video cassette recorded using the CCIR standard SECAM color system → SECAM
5. Set the MONITOR TV switch on the rear according to the monitor to be used.
   —When a color video monitor is used → COLOR
   —When a black and white monitor is used → B & W
6. Set the TIMER switch to OFF.
7. Set the PROGRAMMED OPERATION switch to OFF.

OPERATION

Turn the power on, and insert a recorded video cassette.



1. Usually set the AUDIO MONITOR switch to MIX.
   (If you want to hear only the sound on the audio channel 1, set the switch to CH-1; if you want to hear only the sound on the audio channel 2, set it to CH-2.)
   ●This switch has no effect on the sound output from the LINE OUT jacks.
2. Press the PLAY button. Playback will begin.

To stop playback, press the STOP button.

●When the tape is played back to the end, it automatically rewinds to the beginning and stops.

TO STOP THE TAPE MOMENTARILY DURING PLAYBACK

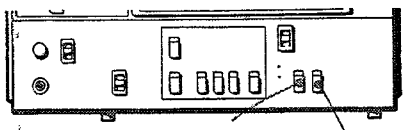
Press the PAUSE button. The tape stops and a still picture will appear on the monitor screen. To resume playback, press the PAUSE button again or press the PLAY button.

The long pause mode
If the pause mode continues for about 8 minutes, the tape around the head drum automatically slackens to protect the video head and the tape, and the still picture disappears. This is called the long pause mode.

SEARCH OPERATION

The SEARCH buttons allow you to view the playback picture at about 5 times normal speed in both forward and reverse directions so that a particular point can be quickly located.

●During search operation, the servo system is not locked, so guard band noise flows on the playback picture.



for 5-times normal speed playback in the reverse direction

for 5-times normal speed playback in the forward direction

TO PLAY A TAPE BACK WITH AN EXTERNAL SYNC SYSTEM

Connect a sync signal or a composite video signal whose color system is the same as that of the playback tape, PAL, SECAM or NTSC4.43, to the SYNC IN connector. In other cases, the VP-5030 operates with an internal sync system.
●Be sure to set the SYSTEM SELECT switch to the appropriate position.

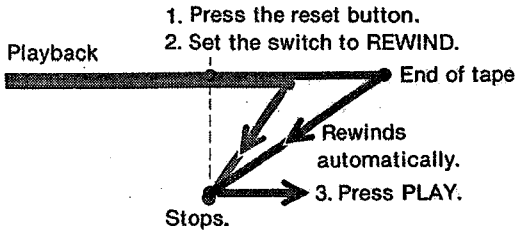
PROGRAMMED OPERATION

Using the PROGRAMMED OPERATION switch, you can locate a particular point quickly or repeatedly play back a particular portion.

●For normal playback, set the PROGRAMMED OPERATION switch to OFF.

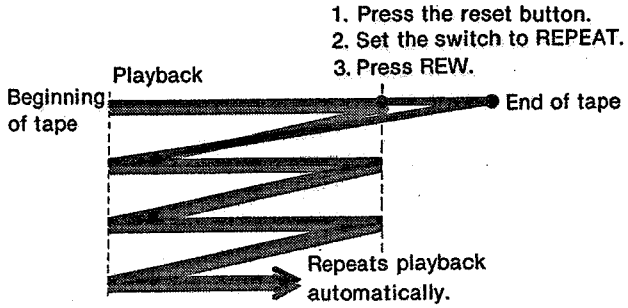
To locate a particular point

1. Play the tape back and predss the reset button at the desired point.
2. Set the PROGFRAMMED OPERATION switch to REWIND 000.
   At end of the tape, the tape will automatically rewind to the point where the tape counter reads "000" and stop.
   ●To rewind the tape before the tape reaches the end, press the REW button. The tape will automatically rewind to the "000" point and stop as illustrated by the blue arrow.
3. Press the PLAY button to play the tape back from that point.



To repeat playback between the beginning of the tape and a aparticular point

1. Search for the point where playback is to stop and press the reset button at that point.
2. Set the PROGRAMMED OPERATION switch to REPEAT START 000.
3. Press the REW button to rewind the tape. The tape rewinds to the beginning of the tape, then the recorder plays back the designated portion on the tape repeatedly.

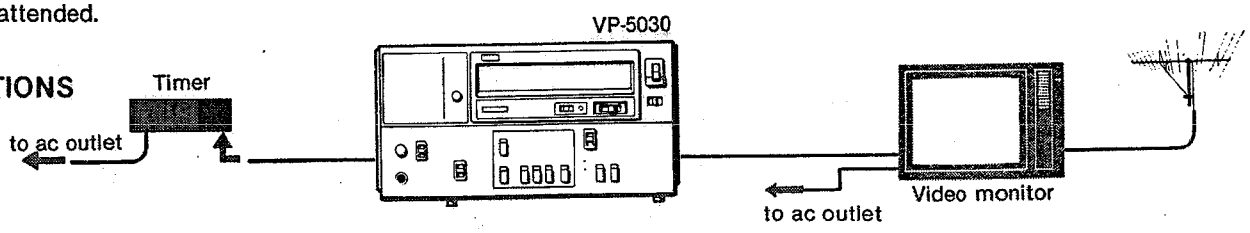


●When the reset button is pressed at the end of the tape, the tape rewinds to the beginning of the tape and the player palys back the entire tape repeatedly.

TIMER OPERATION

Using an optional timer, you can start and stop playback while the player is unattended.

CONNECTIONS



TIMER PLAYBACK

1. Turn the player on and make the preparations for playback. (See page 13.)
2. Set the time to start and stop playback on the timer.
3. Set the TIMER switch to PLAY.

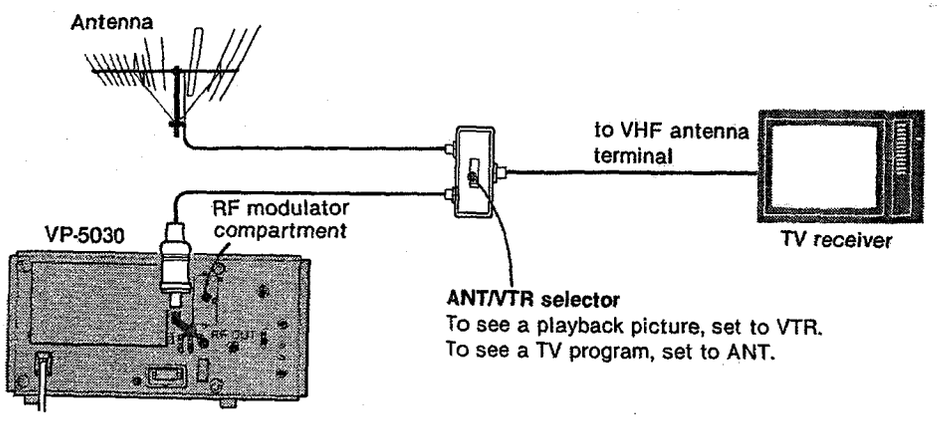
The playback will begin at the time set on the timer.

●Be sure to disconnect the RX-353CE or RX-303CE auto search control unit from this unit or the timer playback will not be activated.

TO SEE A PICTURE ON A TV RECEIVER

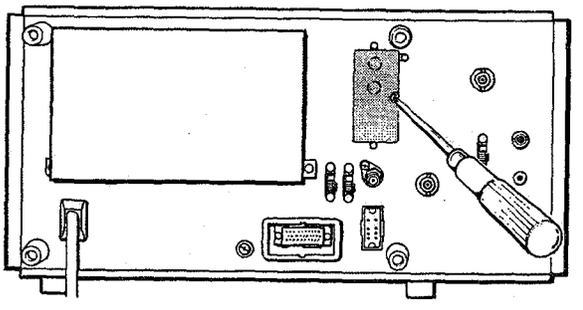
A playback picture can be seen on a conventional TV receiver when an RF modulator (optional) is installed into the VP-5030.
It is, of course, possible to see a TV program as usual.

CONNECTIONS

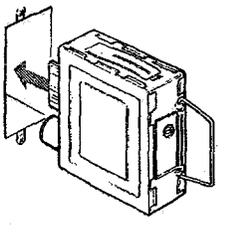


INSTALLATION OF AN RF MODULATOR

1. Loosen the screw on the RF modulator compartment, and remove the lid.



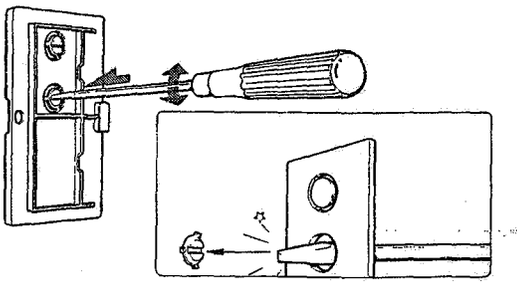
2. Install the RF modulator into the compartment aligning the direction properly.



Channel select switch

3. Replace the lid.

●Push to break off the hole and the channel select switch can be reset without removing the RF modulator compartment lid.



●For details, please refer to the instruction manual furnished with the RF kit.

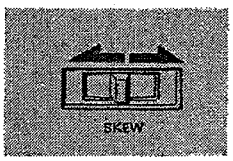
OPERATION

1. Set the ANT/VTR selector on the antenna selector to VTR.
2. Turn the TV receiver on, and select the output channel of the RF modulator.
3. Turn the player on.
4. Insert a recorded video cassette.
5. Set the AUDIO MONITOR switch to the appropriate position (See page 7.)
6. Press the PLAY button. You can see a playback picture on a TV receiver.

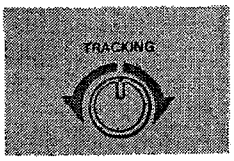
ADJUSTMENT OF THE PLAYBACK PICTURE

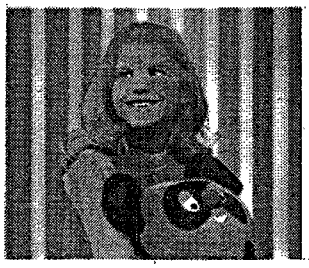
Normal picture

If a hookng distortion appears in the upper part of the picture:
Move the SKEW control slowly to the right or left until a normal picture is obtained.

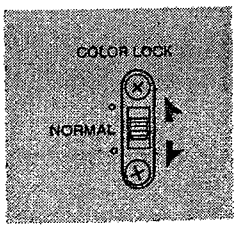


If snow or streaks may appear when a tape recorded on another machine is played back:
Turn the TRACKING control slowly clockwise or counterclockwise until the best possible picture is obtained.
- When the playback of this particular tape is finished, be sure to return the control to its center FIXED position.

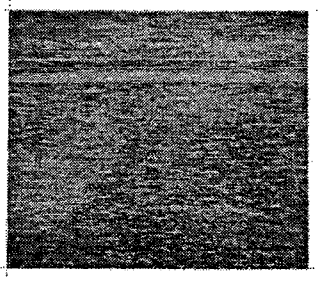




If the picture loses its color or does not maintain a correct hue:
Reset the COLOR LOCK switch on the rear to either upper or lower position.
- When the playback of this particular tape finished, be sure to return the COLOR LOCK switch to the NORMAL position.



VIDEO HEAD CLEANING



—If the picture completely disappears at times or if only snow or streaks may appear on the monitor screen,

The video head may be dirty. Clean the head using the KC-1C Cleaning Cassette (optional).

1. Eject the inserted cassette.
2. Insert the cleaning cassette.
3. Press the reset button so that the tape counter indicates "000".
4. Press the PLAY button. The tape will start running.
5. When the tape counter indicates "010", press the STOP button.
6. Eject the cleaning cassette.

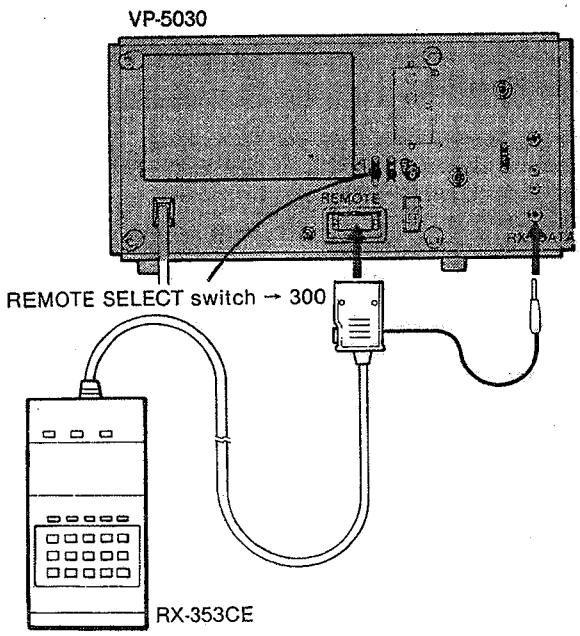
- Do not run a cleaning cassette for more than 30 seconds at a time, nor use it unless the picture symptoms clearly indicate the need for head cleaning. Excessive use of the cleaning cassette will shorten the life of the head.
- Do not rewind the cleaning cassette every time it is used. Run the tape to its end, then rewind it.
- You can run through a cleaning cassette several times, although it does gradually become less effective.

AUTO SEARCH CONTROL

With the RX-353CE or RX-303CE Auto Search Control (optional), any point on the tape designated in minutes and seconds can be automatically located and played back. In addition, up to 8 segments can be automatically played back in any desired order. Refer to the Auto Search Control's instruction manual for details.

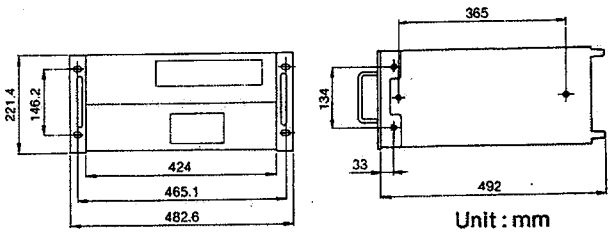
Notes

- Setting and controls on the player have priority over those on the Auto Search Control.
- Be sure to turn the power of the player off when connecting and disconnecting the 20-pin connector.
- Set the REMOTE SELECT switch to 300 and the PROGRAMMED OPERATION switch to OFF when the Auto Search Control is used.
- Do not run the tape with the function buttons or SEARCH buttons on the VP-5030 when the Auto Seach Control is used. This is because the indication on the tape position indicator of the Auto Seach Control and the actual tape position do not correspond correctly when the VP-5030 is used to run the tape.



RACK MOUNTING

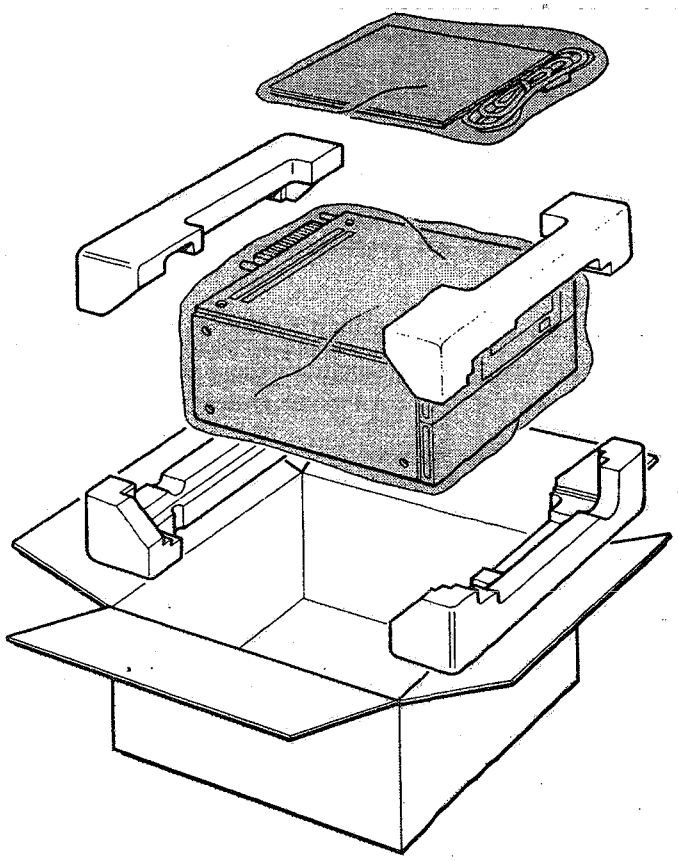
The VP-5030 is designed to be mounted in a 19-inch EIA standard rack. It's also possible to mount the VP-5030 in other racks which can answer a variety of needs. Please contact your Sony dealer when you want to mount the VP-5030 in the rack.



Unit : mm

REPACKING FOR SHIPMENT

The repacking procedure is subject to change.
Refer to the illustration on the original carton for later packing instructions.



SPECIFICATIONS

System

Video recording	Rotary two-head helical scan system Luminance: fm recording Color signal: converted subcarrier direct recording
Video signal system	CCIR standards, PAL or SECAM color EIA standards, NTSC4.43 color

Video

VIDEO OUT	BNC type, ×1 1.0 V (p-p) ±0.2 V (p-p), 75 ohms, unbalanced, sync negative
TV	8 pin, ×1
Horizontal resolution	Monochrome mode: 330 lines Color mode: 250 lines
Signal-to-noise ratio	Monochrome mode: more than 48 dB Color mode: more than 45 dB
Sync	
SYNC IN	BNC type, ×1 4 V (2 – 5 V) (p-p), 75 ohms, unbalanced, sync negative

Audio

LINE CH-1, CH-2 OUT	Phono jack, × 1 in each −5 dB (with 47 k ohm load)
AUDIO MONITOR	Minijack, × 1 −5 dB (with 47 k ohm load)
HEADPHONES	Stereo phone jack, ×1 for 8 ohm headphones Level: adjustable (−24 dB to −46 dB)
TV	8 pin, ×1
Signal-to-noise ratio	Better than 48 dB (at 3% distortion) Both channels 1 and 2
Frequency response	50 – 15,000 Hz (channels 1 and 2)

Special functions

Pause	A still picture is obtained, with automatic long pause function
Search	Possible (about 5 times of normal speed in forward and reverse directions)
Tracking control	Possible
Skew control	Possible
Sync system	Internal and external
Dropout compensator	Internal

Tape transport

Tape speed	9.53 cm/sec (3¾ ips)
Playback time	60 min (with KCA-60)
Fast forward and rewind time	within 4 min (with KCA-60)
Wow and flutter	±0.25% (DIN)
Tape compatibility	U-matic video cassette tape
Usable tape	KCA, KCS type tape

General

Power requirements	110 – 240 V ac ±10%, 50/60 Hz ±10%
Power consumption	55 W
Operating position	Horizontal
Storage temperature	−20°C to +60°C (−4°F to +140°F)
Operating temperature	5°C to 40°C (41°F to 104°F)
Dimensions	Approx. 446 × 237 × 516 mm (w/h/d) (17⅝ × 9⅜ × 20⅜ inches) including projecting parts and controls
Weight	Approx. 22 kg (48 lb 90 oz)
Acessory supplied	AC power cord (1)

While the information given is true at the time of printing, small production changes in the course of our compnay's policy of improvement through research and design might not necessary be indicated in the specifications. We would ask you to check with your appointed Sony dealer if clarification on any point is required.

NOTE:
This appliance conforms with EEC Directives 76/889 and 82/499 regarding interference suppression.

RECOMMENDED VIDEO EQUIPMENT AND ACCESSORIES

Color Video Monitor Sony CVM and PVM series
Auto Search Control RX-353CE, RX-303CE, RM-300
Remote Control Unit RM-500
Cleaning Cassette KC-1C
Remote Control Cable RCC-5F
Monitor Connecting Cable VMC-3P (3 m), VMC-5P (5 m), VMC-10P (10 m)
Video Responder System VRS-110, VRP-100
RF kit RFK-660UCE/660UB/660UF/660CH
Multi Remote Control Unit RM-555
Video and Audio Distributor DA-500
Video and Audio Switcher VCS-500
VTR Selector RM-V5